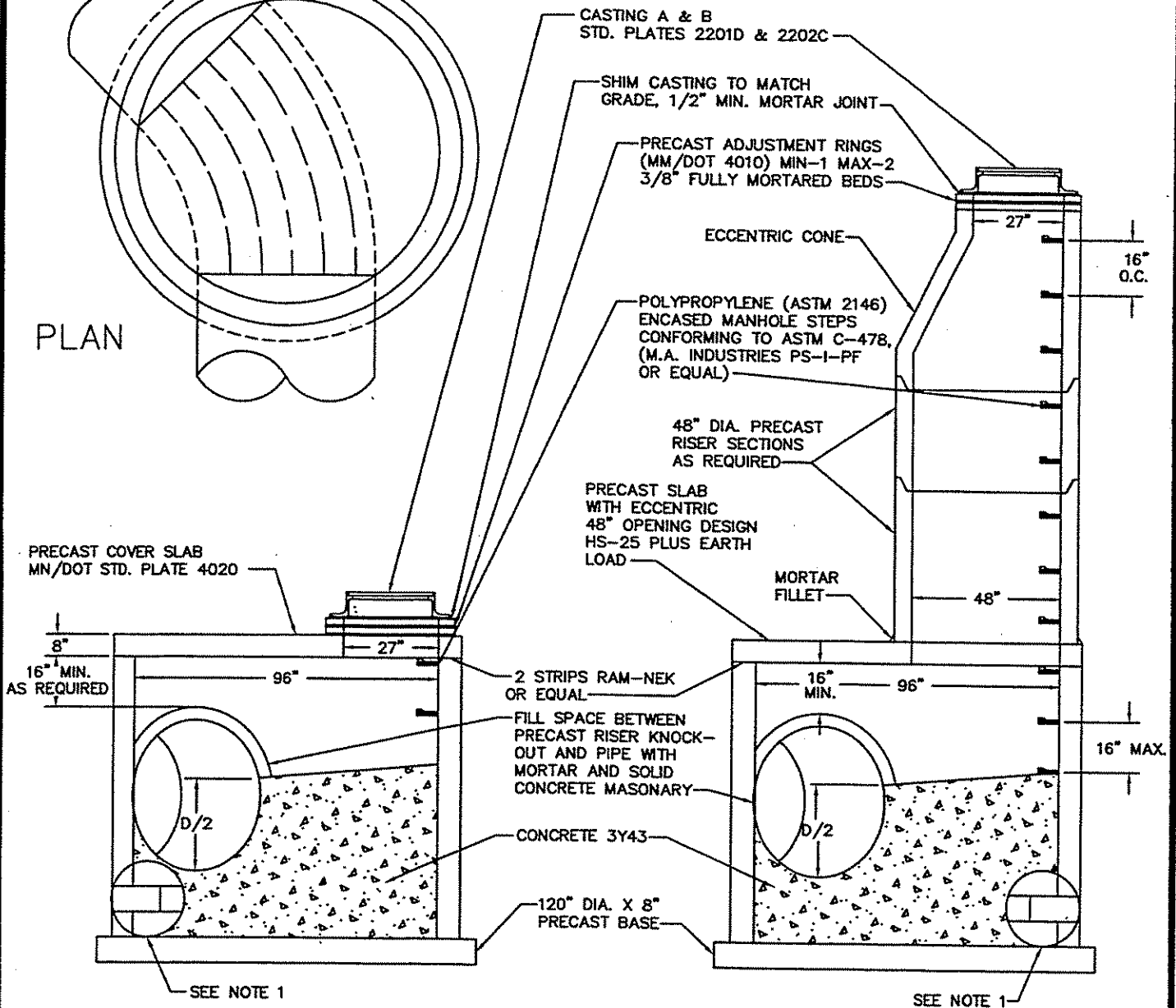


PLAN



TYPE V

FOR USE WHEN MANHOLE DEPTH IS 12' OR LESS

TYPE V-S

FOR USE WHEN MANHOLE DEPTH EXCEEDS 12 FEET

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Joseph J. Mueller
JOSEPH J. MUELLER
Date 9-2-02 Lic. No. 13942

NOTES:

1. THIS PORTION OF MANHOLE MAY BE CONSTRUCTED OF 8" SOLID CONCRETE MANHOLE BLOCK (SEE SPECIFICATIONS). ALL JOINTS TO BE COMPLETELY FILLED WITH MORTAR 3/8" THICK.
2. PRECAST RISER TO MEET ASTM C-478
3. TONGUE AND GROOVE PRECAST RISER SECTION JOINTS TO USE O-RING RUBBER GASKET CONFORMING TO ASTM C-443
4. PLASTER EXTERIOR OF ADJUSTING RINGS WITH 1/2" MORTAR. DO NOT PLASTER INTERIOR.
5. SAW CUT PIPES FLUSH WITH INTERIOR WALL OF MANHOLE

APPROVED

[Signature]

CITY ENGINEER

CITY OF ST. PAUL
DEPARTMENT OF PUBLIC WORKS

MANHOLE, TYPE V & V-S

Date of
Revision

JULY
2002

Standard
Plate
No.

2105D